

中国科学院大气物理研究所 2026年4月2日 星期二

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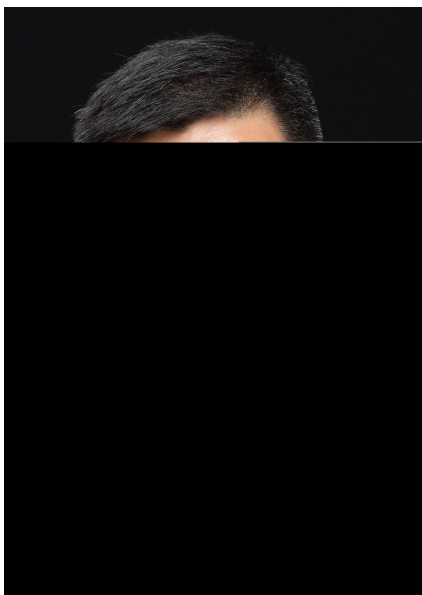
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人员详情



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社会任职

- 1.中国科学院大气物理研究所公共技术服务中心 主任 兼 理化分析测试中心 主任
 - 2.SCI期刊《Atmospheric Research》 副主编
 - 3.中国气象学会医学气象学委员
 - 4.中国老年保健协会气象医养健康专业委员会 副主任委员/秘书长
- 个人简介

教育经历

- 1995.09-1999.07: 兰州大学, 大气物理学与大气环境, 获学士学位
- 1999.09-2002.06: 兰州大学, 大气物理学与大气环境, 获硕士学位
- 2004.09-2007.06: 兰州大学, 气象学, 获博士学位

工作经历

- 2002.07-2007.10: 中国人民解放军防化学院, 少校/讲师
- 2007.11-2009.12: 中国科学院大气物理研究所, 助研
- 2010.01-2016.01: 中国科学院大气物理研究所, 副研究员, 硕士生导师
- 2016.02-至今: 中国科学院大气物理研究所, 研究员, 博士生导师
- 2017.11-至今: 中国科学院大气物理研究所公共技术服务中心, 副主任(主持工作); 理化分析测试中心, 主任
- 2020.8-至今: 中国科学院大气物理研究所公共技术服务中心, 主任; 理化分析测试中心, 主任

学术兼职

2018.03-至今：《Atmospheric Research》副主编

2015.09-至今：成都信息工程大学，客座教授

2011.05-至今：中国气象学会医学气象学委员会委员

2019.09-至今：中国老年保健协会气象医养健康专业委员会副主任委员，兼秘书长

获奖及荣誉

1. 2020年：英国皇家学会牛顿高级学者
2. 2018年：北京市科学技术一等奖
3. 2017年：赵九章优秀中青年科学奖
4. 2016年：中国科学院大气物理研究所科技创新贡献奖
5. 2015年：中国科学院大气物理研究所"学笃风正"创新贡献
6. 2015年：北京青年优秀科技论文三等奖
7. 2014年：全国优秀气象科技工作者
8. 2014年：北京市气象科技优秀论文二等奖
9. 2012年：中国科学院大气物理研究所先进工作者
10. 2010年：全军优秀教材二等奖
11. 2006年：中国科学院大气物理研究所“学笃风正”优秀论文奖
12. 2005年：求是科技基金会“求是奖学金”奖

代表论著

发表论文160多篇，其中110篇SCI，IF累计大于470，论文总引5000余次。代表性论著（*为通讯作者）：

(1) Xin Jinyuan, et al., The Campaign on Atmospheric Aerosol Research Network of China: CARE-China; Bull. Amer. Meteor. Soc.; 2015, 96(7): 1137–1155.

(2) Xin Jinyuan, et al., The observation-based relationships between PM_{2.5} and AOD over China; J. Geophys. Res. Atmos.; 2016, 121(18): 10701-10716.

(3) Xin Jinyuan, et al., Aerosol direct radiative forcing in desert and semi-desert regions of northwestern China; Atmospheric Research; 2016, 171: 56-65.

(4) Xin Jinyuan, et al., Reductions of PM_{2.5} in Beijing–Tianjin–Hebei Urban Agglomerations during the 2008 Olympic Games; Adv. Atmos. Sci.; 2012, 29(6): 1330-1342.

(5) Xin Jinyuan, et al., The empirical relationship between the PM_{2.5} concentration and aerosol optical depth over the background of North China from 2009 to 2011; Atmospheric Research; 2014, 138:

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- (7) Xin Jinyuan, et al., Trends in aerosol optical properties over the Bohai Rim in Northeast China from 2004 to 2010; *Atmospheric Environment*; 2011, 45: 6317-6325.
- (8) Xin Jinyuan, et al., Aerosol optical properties affected by a strong dust storm in Central and Northern China; *Adv. Atmos. Sci.*; 2010, 27(3): 562-574.
- (9) Xin Jinyuan, et al., Variability and reduction of atmospheric pollutants in Beijing and its surrounding area during the Beijing 2008 Olympic Games; *Chinese Sci Bull*; 2010, 55(18):1937-1944.
- (10) Xin Jinyuan, et al., Aerosol optical depth (AOD) and Angstrom exponent of aerosols observed by the Chinese Sun Hazemeter Network from August 2004 to September 2005; *J. Geophys. Res.*; 2007, 112(D5): 1703-1711.
- (11) Xin Jinyuan, et al., Optical properties and size distribution of dust aerosols over the Tengger Desert in Northern China; *Atmospheric Environment*; 2005, 39:5971-5978.
- (12) Xiaoyan Wu, Jinyuan Xin*, et al. Optical, radiative and chemical characteristics of aerosol in Changsha city of Central China. *Adv. Atmos. Sci.*; 2020, doi: 10.1007/s00376-020-0076-9, online.
- (13) Yunyan Jiang, Jinyuan Xin*, et al., Analysis of differences between thermodynamic and material boundary layer structure: Comparison of detection by ceilometer and microwave radiometer, *Atmospheric Research*, 2021, 248: 105179.
- (14) Yongjing Ma; Jianhuai Ye; Jinyuan Xin*; et al. The Stove, Dome, and Umbrella Effects of Atmospheric Aerosol on the Development of the Planetary Boundary Layer in Hazy Region. *Geophysical Research Letters*, 2020, 47, e2020GL087373.
- (15) Zhao Dandan, Liu Guangjing, Xin Jinyuan*, et al., The haze pollution under strong atmospheric oxidization capacity in summer in Beijing: Insights into the formation mechanism of atmospheric physicochemical process; *Atmos. Chem. Phys.*, 2020, 20: 4575–4592.
- (16) Xinrui Wu, Jinyuan Xin*, et al., A new approach of the normalization relationship between PM_{2.5} and visibility and the theoretical threshold, a case in north China, *Atmospheric Research*, 2020, 245, 105054.
- (17) Dandan Zhao, Jinyuan Xin*, et al., The formation mechanism of air pollution episodes in Beijing city: Insights into the measured feedback between aerosol radiative forcing and the atmospheric boundary; *Science of the Total Environment*, 2019, 692: 371–381.
- (18) Guangjing Liu, Jinyuan Xin*, et al., Impact of the coal banning zone on visibility in the Beijing-Tianjin-Hebei region, *Science of the Total Environment*, 2019, 692: 402–410.
- (19) Ruirui Si, Jinyuan Xin*, et al., Source Apportionment and Health Risk Assessment of Trace Elements in the Heavy Industry Areas of Tangshan, China; *Air Quality, Atmosphere & Health*, 2019, 12(11): 1303-1315.
- (20) Yining Ma, Jinyuan Xin*, et al., Long-term variations of the PM_{2.5} concentration identified by MODIS in the tropical rain forest, Southeast Asia; *Atmospheric Research*, 2019, 219: 140-152.

- (21) Dandan Zhao, Jinyuan Xin*, et al., Trends of aerosol optical properties over the heavy industrial zone of northeastern Asia in the past decade (2004-2015). *Journal of the Atmospheric Sciences*, 2018, 75: 1741-1754.
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- (26) Ma Yongjing, Xin Jinyuan*, et al., Optical properties and source analysis of aerosols over a desert area in Dunhuang, Northwest China. *Advances in Atmospheric Sciences*, 2017, 34(8): 1017-1026.
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承担科研项目情况

- 1.科技部国家重点研发计划项目课题: 东部大气环境关键问题长期观测研究, 2016-2020, 负责人.
- 2.国家自然科学基金优秀青年科学基金: 大气物理与大气环境, 2013-2015, 负责人.
- 3.国家自然科学基金面上项目: 中国区域大气气溶胶光学厚度与单次散射反照率反演方法改进与近50年变化趋势研究, 2014-2017, 负责人.

- 4.中国科学院战略性先导科技专项（A类）子课题：气溶胶气态前体物在线联网观测研究，2011-2015，负责人.
- 5.中国科学院战略性先导科技专项（B类）子课题：气溶胶光学特性地基联网观测及AOD与PM2.5相关性研究，2012-2016，负责人.
- 6.中国科学院知识创新工程重大项目子课题：京津塘区域大气污染干湿沉降通量联网观测及化学成分析，2007-2011，负责人.
- 7.中国科学院战略性先导科技专项（A类）专题：长三角区域气溶胶辐射强迫观测及与大气边界层机构相互作用机制研究，2019-2023，负责人.
- 8.科技部973项目专题：气溶胶成分析及其消光效应研究, 2014-2018，负责人.
- 9.科技部863重大项目子课题：气溶胶卫星遥感反演结果的地基检验，2007-2010，负责人.
- 10.北京市科技计划：基于智能交通海量数据的交通环境分析研究系统，2013-2014，负责人.



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